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NOTICE OF ALLOWANCE AND FEE(S) DUE

25944 7590 07/11/2008

OLIFF & BERRIDGE, PLC P.O. BOX 320850

ALEXANDRIA, VA 22320-4850

EXAMINER FEARER, MARK D

ART UNIT PAPER NUMBER

2143 DATE MAILED: 07/11/2008

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/658,810 | 09/10/2003 | Taro Terao | 117127 | 2878 |

TITLE OF INVENTION: INFORMATION PROCESSING SYSTEM

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO | \$1440 | \$300 | \$0 | \$1740 | 10/14/2008 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

| INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notifical | ed below or directed ot | or traing the nerwise | nsmitting the ISSU Patent, advance on in Block 1, by (a | i) specifying a new o | orres | spondence address; | and/or | r (b) indicating a sepa | nould be completed where correspondence address as trate "FEE ADDRESS" for |
|---|---|-----------------------------|--|--|---|--|---------------------------------------|---|--|
| CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) | | | | Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. | | | | | |
| OLIFF & BER P.O. BOX 32083 ALEXANDRIA | | /2008 | | | I bo | Cer | tificate | of Mailing or Trans | |
| | | | | | | | | | (Depositor's name) |
| | | | | | | | | | (Signature) |
| | | | | | | | | | (Date) |
| APPLICATION NO. | FILING DATE | | | FIRST NAMED INVEN | TOR | | ATTO | RNEY DOCKET NO. | CONFIRMATION NO. |
| 10/658,810 TITLE OF INVENTION | 09/I0/2003 : INFORMATION PRO | CESSI | NG SYSTEM | Taro Terao | | | | 117127 | 2878 |
| APPLN, TYPE | SMALL ENTITY | IS | SUE FEE DUE | PUBLICATION FEE D | NIE | PREV. PAID ISSUE | TERE | TOTAL FEE(S) DUE | DATE DUE |
| nonprovisional | NO | | \$1440 | \$300 | .013 | \$0 | , I LL | \$1740 | 10/14/2008 |
| EXAM | | | ART UNIT | CLASS-SUBCLASS | , | 1 | | | |
| FEARER. | | | 2143 | 709-203000 | , | J | | | |
| Address form PTO/SE "Fee Address" ind. PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A | ondence address (or Cha 3/122) attached. ication (or "Fee Address 12 or more recent) attach ND RESIDENCE DAT. less an assignce is ident h in 37 CFR 3.11. Com | nge of " Indic ed. Us | Correspondence ation form e of a Customer BE PRINTED ON | (I) the names of u or agents OR, alter (2) the name of a registered attorney 2 registered patent listed, no name will THE PATENT (print of | ip to mativ or a attor il be or typ he pa | e firm (having as a agent) and the name meys or agents. If a printed. be) atent. If an assigna assignment. | memb es of u no nam | er a 2p to p to lee is 3 | ocument has been filed for |
| Please check the appropri | iate assignee category or | catego | ories (will not be pr | inted on the patent): | ۵ | Individual 🗖 Co | rporati | ion or other private gro | oup entity Government |
| 4a. The following fee(s) are submitted: Issue Fee Publication Fee (No small entity discount permitted) Advance Order - # of Copies | | | | 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). | | | | | |
| - 11 | s SMALL ENTITY state | ıs. See | 37 CFR 1.27. | b. Applicant is no | o long | ger claiming SMAI | LEN | IITY status. See 37 CF | FR 1.27(g)(2). |
| NOTE: The Issue Fee an interest as shown by the | a Publication Fee (if req records of the United Sta | tes Pat | ent and Trademark | office. | nan ti | ne appucant; a regi | stered a | attorney or agent; or th | e assignee or other party in |
| Authorized Signature | | | | | | Date | | | |
| Typed or printed name | e | | | | | Registration N | o | | |
| This collection of inform an application. Confident submitting the completed this form and/or successi | ation is required by 37 C tiality is governed by 35 d application form to the ons for reducing this bu | FR 1 U.S.C USPT | 311. The information in the second sec | on is required to obtain 1.14. This collection is depending upon the e Chief Information O | or r is est indiv | retain a benefit by the timated to take 12 r ridual case. Any co er. U.S. Patent and | he publ ninutes mment Traden | lic which is to file (and s to complete, includin is on the amount of tir nark Office, U.S. Dens | by the USPTO to process) g gathering, preparing, and ne you require to complete artment of Commerce, P.O. |

uns form and/or suggestions for reducing this barden, should be sent to the Cinet information Officer, O.S. Fatern and Trademark Office, O.S. Department of Commerce, P.O. Box 1450, Hazandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450. Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



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| P.O. BOX 320850 | | ART UNIT | PAPER NUMBER | | | |
| ALEXANDRIA, VA 22320-4850 | | | 2143 DATE MAILED: 07/11/2008 | | | |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 844 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 844 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

| Application No. | Applicant(s) | |
|-----------------|--------------|--|
| 10/658,810 | TERAO, TARO | |
| Examiner | Art Unit | |
| MADED EEADED | 21/12 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence addressAll claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included
herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative
of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- 1. This communication is responsive to amendment filed 06 June 2008.
- 2. The allowed claim(s) is/are 3-14, now renumbered 1-12.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a)

 All b)

 Some* c)

 None of the:
 - 1. A Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. _____
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) I hereto or 2) to Paper No./Mail Date _____
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2.
 Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7. Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. Other .

/Ashok B. Patel/ Primary Examiner, Art Unit 2154 Application/Control Number: 10/658,810

Art Unit: 2154

DETAILED ACTION

This Action is in response to Amendment filed 06 June 2008. Claims 1-12 are now pending in the present application.

Examiner's Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Paul Tsou on 23 June 2008.

In the claims:

Claim 6 in the application has been amended to read as follows:

(Currently Amended) A computer system comprising:

a holding unit for holding pieces of data as processing objects and first characteristic values calculated based on the pieces of data while associating the pieces of data with the first characteristic values respectively; and

a providing unit for accepting a received characteristic value as an information request for a piece of data as a processing object from a requester and selecting the piece of data associated with the received characteristic value from the pieces of data held by the holding unit to provide the piece of data to the requester:

wherein the holding unit holds a characteristic value calculated <u>by an operation</u>

unit based on a second characteristic value set, wherein the piece of data is divided into
a sequence of data fragments each having a predetermined size, the second

the providing unit provides respective second characteristic values contained in the second characteristic value set to the requester when the received characteristic value accepted as an information request for a piece of data as a processing object is

characteristic value set being calculated based on the data fragments; and

Allowable Subject Matter

Claims 1-2 are cancelled.

associated with the second characteristic value set.

Claims 3-14 are allowed.

The following is an Examiner's statement of reasons for allowance:

Consider claims 3, 5-6, and 9-10. None of the prior arts of record teach or suggest the claimed limitations of a holding unit for holding pieces of data as processing objects and first characteristic values calculated based on the pieces of data while associating the pieces of data with the first characteristic values respectively; a providing unit for accepting a received characteristic value as an information request for a piece of data as a processing object from a requester and selecting the piece of data associated with the received characteristic value from the pieces of data held by the

Application/Control Number: 10/658,810

Art Unit: 2154

holding unit to provide the piece of data to the requester; an operation unit for calculating a characteristic value based on the piece of data as a processing object, wherein the operation unit divides the piece of data into a sequence of data fragments each having a predetermined size, calculates second characteristic values based on the data fragments respectively, holds the data fragments and the second characteristic values in the holding unit while associating the data fragments with the second characteristic values respectively, generates a sequence of the second characteristic values corresponding to the sequence of data fragments, calculates the characteristic value based on the sequence of the second characteristic values, and holds the sequence of the second characteristic value in the holding

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance.

unit while associating the sequence of the second characteristic values with the

Conclusion

Any response to this Office Action should be faxed to (571) 273-8300 or mailed

to:

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

characteristic value

Application/Control Number: 10/658,810

Art Unit: 2154

Hand-delivered responses should be brought to

Customer Service Window

Randolph Building 401 Dulany Street Alexandria, VA 22314

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Mark Fearer whose telephone number is (571) 270-1770. The Examiner can normally be reached on Monday-Thursday from 7:30am to 5:00pm.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Nathan Flynn can be reached on (571) 272-1915. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free) or 571-272-4100.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist/customer service whose telephone number is (571) 272-2600.

Mark Fearer M.D.F./mdf June 23, 2008

/Ashok B. Patel/

Primary Examiner, Art Unit 2154